

AeSCP-2REVISED.ST25.txt  
SEQUENCE LISTING

<110> LAN, Que  
KREBS, Kendall C.

<120> STEROL CARRIER PROTEIN-2 FROM THE MOSQUITO, AEDES AEGYPTI

<130> 054030-0056

<150> US 60/465,648

<151> 2003-04-25

<160> 13

<170> PatentIn version 3.3

<210> 1

<211> 333

<212> DNA

<213> Aedes aegypti

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gtcaagaact gggttatgga tctgaagaac gtcaagctgg tcgagtccga cgatgccgcc	180
gaggccaccc tgaccatgga ggatgacatc atgttcgcca tcggaaccgg tgccctgccc	240
gccaaaggaag ccatggccca ggacaagatg gaagtcgatg gacaagttga gctgatcttc	300
ctgctggagc cattcattgc ctcgctgaag taa	333

<210> 2

<211> 571

<212> DNA

<213> Aedes aegypti

<400> 2

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gccaaccgtc aggtcgagca cgtgtacaag ttcagaatca cccagggtgg caaggttgtc	180
aagaactggg ttatggatct gaagaacgtc aagctggtcg agtccgacga tgccgccgag	240
gccaccctga ccatggagga tgacatcatg ttcgccatcg gaaccggtgc cctgcccgcc	300
aaggaagcca tggcccagga caagatggaa gtcgatggac aagttgagct gatcttcctg	360
ctggagccat tcattgcctc gctgaagtaa aatgcgtgac gcggcccttg tgaataccaa	420
tcattgcatg tgcttgctc gtttaatcag agcgaatgtc atgtcatcca aactactgtg	480
ttgtaactta ttattttcct gtatcgcatg ttcggcatca ttaaaacgta ttttgtaaag	540
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<210> 3

## AeSCP-2REVISED.ST25.txt

<211> 110  
 <212> PRT  
 <213> Aedes aegypti

<400> 3

Met Ser Leu Lys Ser Asp Glu Val Phe Ala Lys Ile Ala Lys Arg Leu  
 1 5 10 15

Glu Ser Ile Asp Pro Ala Asn Arg Gln Val Glu His Val Tyr Lys Phe  
 20 25 30

Arg Ile Thr Gln Gly Gly Lys Val Val Lys Asn Trp Val Met Asp Leu  
 35 40 45

Lys Asn Val Lys Leu Val Glu Ser Asp Asp Ala Ala Glu Ala Thr Leu  
 50 55 60

Thr Met Glu Asp Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Leu Pro  
 65 70 75 80

Ala Lys Glu Ala Met Ala Gln Asp Lys Met Glu Val Asp Gly Gln Val  
 85 90 95

Glu Leu Ile Phe Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys  
 100 105 110

<210> 4  
 <211> 123  
 <212> PRT  
 <213> Anopheles gambiae

<400> 4

Tyr Cys Pro Ser Ala Gln Arg Val Arg Gln Leu Leu Met Ala Leu Lys  
 1 5 10 15

Ser Asp Pro Val Phe Glu Arg Ile Ala Lys Arg Leu Glu Ser Ile Asp  
 20 25 30

Pro Asn Asn Arg Gln Val Gln Gln Val Tyr Lys Phe Arg Ile Gln Gln  
 35 40 45

Asn Gly Thr Val Val Lys Thr Trp Val Leu Asp Leu Lys Ala Val Lys  
 50 55 60

Leu Thr Glu Gly Asp Gly Pro Ala Glu Ala Thr Leu Thr Met Glu Asp  
 65 70 75 80

Asp Ile Met Phe Ala Ile Gly Thr Gly Ala Met Pro Ala Lys Glu Ala  
 85 90 95

## AeSCP-2REVISED.ST25.txt

Leu Ala Gln Lys Lys Leu Asp Val Glu Gly Gln Val Glu Leu Ile Phe  
 100 105 110

Leu Leu Glu Pro Phe Ile Ala Ser Leu Lys Lys  
 115 120

<210> 5  
 <211> 123  
 <212> PRT  
 <213> Rattus norvegicus

<400> 5

Ser Ser Ala Gly Asp Gly Phe Lys Ala Asn Leu Ile Phe Lys Glu Ile  
 1 5 10 15

Glu Lys Lys Leu Glu Glu Glu Gly Glu Glu Phe Val Lys Lys Ile Gly  
 20 25 30

Gly Ile Phe Ala Phe Lys Val Thr Asp Gly Pro Gly Lys Val Glu Ala  
 35 40 45

Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asp  
 50 55 60

Ser Lys Asp Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Leu  
 65 70 75 80

Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln  
 85 90 95

Gly Lys Leu Lys Ile Ala Gly Asn Met Gly Leu Ala Met Lys Leu Gln  
 100 105 110

Ser Leu Gln Leu Gln Pro Lys Asp Ala Lys Leu  
 115 120

<210> 6  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 6

Ser Ser Ala Ser Asp Gly Phe Lys Ala Asn Leu Val Phe Lys Glu Ile  
 1 5 10 15

Glu Lys Lys Leu Glu Glu Glu Gly Glu Gln Phe Val Lys Lys Ile Gly  
 20 25 30

## AeSCP-2REVISED.ST25.txt

Gly Ile Phe Ala Phe Lys Val Thr Lys Gly Pro Gly Lys Val Val Ala  
 35 40 45

Thr Trp Val Val Asp Val Lys Asn Gly Lys Gly Ser Val Leu Pro Asn  
 50 55 60

Ser Asp Lys Lys Ala Asp Cys Thr Ile Thr Met Ala Asp Ser Asp Phe  
 65 70 75 80

Leu Ala Leu Met Thr Gly Lys Met Asn Pro Gln Ser Ala Phe Phe Gln  
 85 90 95

Gly Lys Leu Lys Thr Thr Gly Asn Met Gly Leu Ala Met Lys Leu Gln  
 100 105 110

Asn Leu Gln Leu Gln Pro Gly Asn Ala Lys Leu  
 115 120

<210> 7  
 <211> 124  
 <212> PRT  
 <213> Drosophila melanogaster  
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Asp Gly Phe Lys Val Ala Pro Leu Leu Lys Leu Leu Glu Gln Ala Met  
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Gln Glu Asp Lys Asp Asn Leu Ile Glu Lys Val Arg Ala Ile Tyr Gly  
 20 25 30

Phe Lys Val Asn Gln Gly Pro Asn Lys Gln Thr Gly Phe Trp Val Ile  
 35 40 45

Asp Ala Lys Gln Gly Lys Gly Lys Ile Ile Phe Asn Gly Thr Gln Lys  
 50 55 60

Cys Asp Val Thr Phe Ile Ile Ser Asp Asp Asp Val Phe Glu Leu Leu  
 65 70 75 80

Thr Gly Lys Leu Pro Pro Gln Lys Ala Phe Phe Gln Gly Lys Ile Lys  
 85 90 95

Ile Gln Gly Asn Met Gly Phe Ala Met Lys Leu Met Asp Leu Gln Asp  
 100 105 110

Pro Pro Lys Ala Gly Ser Arg Leu Arg Ser Lys Leu  
 115 120

AeSCP-2REVISED.ST25.txt

<210> 8  
 <211> 115  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 8

Met Ser Leu Gln Ser Asp Ala Val Phe Gln Lys Ile Ile Asp Gly Leu  
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Lys Glu Asn Glu Ala Lys Ala Lys Ala Val Asn Gly Val Phe Leu Tyr  
 20 25 30

Lys Ile Thr Lys Asp Gly Asp Val Ala Asp Glu Trp Thr Leu Asp Cys  
 35 40 45

Lys Asn Ala Lys Ala Tyr Glu Gly Pro Ala Gln Gly Ile Lys Val Asp  
 50 55 60

Thr Thr Leu Thr Val Ala Asp Glu Asp Met Val Asp Ile Ala Leu Gly  
 65 70 75 80

Lys Leu Asn Pro Gln Ala Ala Phe Met Lys Gly Lys Leu Lys Ile Ala  
 85 90 95

Gly Asn Ile Met Leu Thr Gln Lys Leu Ala Pro Leu Leu Lys Thr Asp  
 100 105 110

Ala Lys Leu  
 115

<210> 9  
 <211> 107  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 9

Met Lys Ser Asp Glu Ile Ile Glu Lys Ile Arg Asn Lys Leu Lys Glu  
 1 5 10 15

Ser Asp Pro Ala Arg Arg Thr Val Val Asn Thr Phe Gln Phe Asn Phe  
 20 25 30

Thr Asp Ala Asp Gly Asn Leu Ile Lys Asn Met Ala Met Asp Ile Tyr  
 35 40 45

Glu Gly Ser Ala Thr Ser Val Asp Ala Gln Val Thr Ile Ser Asp Glu  
 50 55 60

AeSCP-2REVISED.ST25.txt

Asp Phe Tyr Leu Val Gly Thr Lys Gln Lys Thr Phe Gln Glu Val Leu  
 65 70 75 80

Gln Gln Glu Asp Ala Lys Ile Asp Gly Asp Glu Glu Ala Ile Asn Lys  
 85 90 95

Met Leu Glu Lys Phe Arg Ile Asn Ser Gln Asn  
 100 105

<210> 10  
 <211> 100  
 <212> PRT  
 <213> *Caenorhabditis elegans*

<400> 10

Val Ala Ser Leu Ala Met Asp Glu His Leu Val Arg Leu Ile Gly Arg  
 1 5 10 15

Val Phe Gln Ile Asn Cys Lys Asp Ile Glu Pro Ile Cys Ile Asp Leu  
 20 25 30

Lys His Gly Ser Gly Ser Ala Tyr Lys Gly Thr Ser Leu Asn Pro Asp  
 35 40 45

Val Val Phe Glu Thr Ser Leu Glu Val Phe Leu Lys Ile Leu Thr Lys  
 50 55 60

Glu Val Ser Pro Val Thr Val Tyr Ala Asn Gly Asn Leu Lys Val Lys  
 65 70 75 80

Gly Ser Ile Gln Asp Ala Met Gln Leu Lys His Leu Val Glu Arg Met  
 85 90 95

Ser Asp Trp Leu  
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<210> 11  
 <211> 128  
 <212> PRT  
 <213> *Saccharomyces cerevisiae*

<400> 11

Met Ser Val Glu Val Asp Gly Phe Asn Ala Ser Pro Leu Phe Lys Glu  
 1 5 10 15

Leu Asn Glu Gly Leu Ala Lys Asp Ala Asp Ala Gln Glu Ala Val Lys  
 20 25 30

Ala Val Asn Ala Ile Ile Val Ile Thr Leu Lys Asn Lys Glu Gly Lys  
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AeSCP-2REVISED.ST25.txt  
40 45

Glu Gln Ser Trp Val Leu Asp Leu Lys Lys Ala Gly Thr Leu Ala Lys  
50 55 60

Val Asp Gly Ala Val Pro Lys Gly Asp Val Gln Leu Phe Leu Lys Asp  
65 70 75 80

Val Asp Phe Val Lys Leu Ala Asn Asn Lys Val Asn Gly Gln Glu Leu  
85 90 95

Glu Phe Met Asn Gly Lys Leu Lys Val Lys Gly Asn Met Met Lys Ala  
100 105 110

Thr Ala Ile Glu Ser Val Phe Lys Lys Leu Asp Pro Arg Pro Lys Leu  
115 120 125

<210> 12  
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<212> DNA  
<213> Aedes aegypti

<400> 12  
gtcggacttc gagagaca

18

<210> 13  
<211> 14  
<212> DNA  
<213> Aedes aegypti

<400> 13  
ttacttcagc gagg

14